

PTO/SB/08A (08-03)

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/650,357
Filing Date	08/27/03
First Named Inventor	James Dillon
Art Unit	3738
Examiner Name	to be assigned
Attorney Docket Number	5199-5

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
↓		US- 5,375,611	12/27/94	Lindqvist et al.	
		US- 4,826,872	05/02/89	Terao et al.	
		US- 5,817,630	10/06/98	Hofmann et al.	
		US- 5,604,244	02/18/97	DeSantis, Jr. et al.	
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
HK		WO01/64661	02/23/01	Nishimura, K.		

Examiner
Signature

/Hemant Khanna/

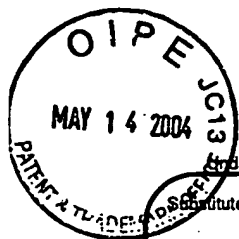
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		Examiner Name	to be assigned
Sheet 1	of 14	Attorney Docket Number	5199-5

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Abrams et al., An improved method for practice vitrectomy.	
		Arch. Ophthalmol., 96(3):521-25, 1978	
		Alder and Cringle, The effect of the retinal circulation on vitreal oxygen tension.	
		Curr. Eye Res., 4(2):121-29, 1985 (N/A)	
		Alder et al., Vitreal oxygen tension gradients in the isolated perfused cat eye.	
		Curr. Eye Res., 5:249, 1986	
		Allen et al., Determination of Henry's Law Constants by equilibrium partitioning in a closed system using a new in situ optical absorbance method.	
		Environ. Toxicology and Chem., 17:1216-221, 1998 (N/A)	
↓		Bakker, A., Die regeneration der verwundeten linsenkapsel von kaninchenslinses in der durchstromungskultur.	
HK		von Graefes Arch. Ophthalmol., 136:333-40, 1937	

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Sheet 2	of 14	Attorney Docket Number	5199-5

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		Beyers, Glyceraldehyde-3-phosphate dehydrogenase from yeast.	
		Methods Enzymol., 89:326-35, 1982	
		Buerk et al., O ₂ gradients and countercurrent exchange in the cat vitreous humor near retinal arterioles and venules.	
		Microvasc. Res., 45(2):134-48, 1993	
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		Am. J. Ophthalmol., 111(4):434-38, 1991	
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↓		Kaohsiung J. Med. Sci., 17:84-89, 2001 (N/A)	
HK			

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		Chylack and Kinoshita, The interaction of the lens and the vitreous II. The influence of the vitreous on lens trauma water and electrolyte balance and osmotic stress.	
		Exp. Eye Res. 15:61-69, 1973	
		Dierks et al., Protein size resolution in human eye lenses by dynamic light scattering after in vivo measurements.	
		Graefe's Arch. Clin. Exp. Ophthalmol., 236:18-23, 1998	
		Dillon et al., Transmission characteristics of the lens of the primate eye.	
		IOVS Invest. Ophthalmol. Vis. Sci., 41:1454-459, 2000	
		Eaton, J. W., Is the lens canned?	
		Free Radic. Biol. Med., 11(2):207-13, 1991	
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Sheet	4	of	14	Attorney Docket Number	5199-5

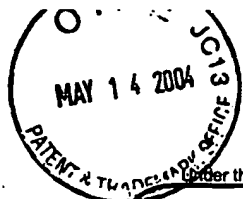
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		Elstner et al., Biochemical model reactions for cataract research.	
		Ophthalmic Res., 17(5):302-07, 1985	
		Fischbarg et al., Transport of fluid by lens epithelium.	
		Am. J. Physiol., 276:C548-C557, 1999	
		Fitch et al., Measurement and manipulation of the partial pressure of oxygen in the rat anterior chamber.	
		Curr. Eye Res., 20(2): 121-26, 2000	
		Haimann et al., The effect of intraocular irrigating solutions on lens clarity in normal and diabetic rabbits.	
		Am. J. Ophthalmol., 94(5):594-605, 1982	
↓		Helbig et al., Oxygen in the anterior chamber before and after cataract operation.	
HK		Ophthalmologie, 92(3):325-28, 1995 (N/A)	

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Sheet 5	of 14	Attorney Docket Number	5199-5

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		Hockwin and Orhloff, Enzymes in normal, aging and cataractous lenses. In Molecular and Cellular Biology of the Eye.	
		Bloemendal, H., ed., New York: John Wiley & Sons, 1981, pp. 367-414	
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		Kleiman et al., Hydrogen peroxide-induced DNA damage in bovine lens epithelial cells.	
HK		Mutation Res., 240:35-45, 1990	

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		Kleiman et al., Ultraviolet light induced DNA damage and repair in bovine lens epithelial cells.	
		Curr. Eye Res., 9:1185-95, 1990	
		Kleiman et al., In Duane's Clinical Ophthalmology. W. Tasman and E.A. Jaeger, eds. Philadelphia: J.P. Lippincott & Co., 1994, vol. 1 ch. 15, pp.1-39 (N/A)	
		Korte et al., A comparison of two buffering systems for lens organ culture.	
		Ophthalmic Res., 14:265-68, 1982	
		Kwan et al., In vivo measurements of oxygen tension in the cornea, aqueous humor, and anterior lens of the open eye.	
		Inves. Ophthalmol. Vis. Sci., 11: 108-14, 1972	
↓		Lamers-Lemmers et al., Non-steady-state O2 diffusion in metamyoglobin solutions studied in a diffusion chamber.	
HK		Biochemical and Biophysical Res. Commun., 276:773-78, 2000	

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		Linetsky et al., Spontaneous generation of superoxide anion by human lens proteins and by calf lens proteins ascorbylated in vitro.	
		Exp. Eye Res., 69:239-48, 1999	
		Lou and Kinoshita, Control of lens glycolysis.	
		Biochim. Biophys. Acta, 141:547-59, 1967	
		Mcdermott et al., Ophthalmic irrigants: A current review and update.	
		Ophthalmic Surg., 19(10): 724-33, Oct. 1988	
		McLaren et al., Measuring oxygen tension in the anterior chamber of rabbits.	
		Investigative Ophthalmology and Visual Science, 39(10): 1899-909, 1998	
↓		Obara, The oxidative stress in the cataract formation.	
HK		Nippon Ganka Gakkai Zasshi, 99(12):1303-41, 1995 (N/A)	

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		Ogura et al., Quantitative analysis of lens changes after vitrectomy by flurophotometry.	
		Am. J. Ophthalmol., 111:179-83, 1991	
		Ogura et al., Prospective longitudinal studies on lens changes after vitrectomy-quantitative assessment by flurophotometry and refractometry.	
		Nippon Ganka Gakki Zasshi, 97:627-31, 1993 (N/A)	
		Ortwerth and Olesen, Glutathione inhibits the glycation and crosslinking of lens proteins by ascorbic acid.	
		Exp. Eye Res., 47(5):737-50, 1988	
		Ortwerth et al., Studies on singlet oxygen formation and UVA light-mediated photobleaching of the yellow chromophores in human lenses.	
		Exp. Eye Res., 74(2):217-29, 2002	
↓		Palmquist et al., Nuclear cataract and myopia during hyperbaric oxygen therapy.	
HK		Br. J. Ophthalmol., 68:113-17, 1984	

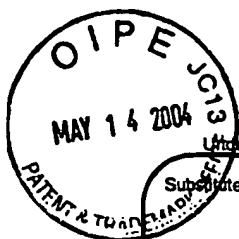
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Sheet 9	of 12	Attorney Docket Number	5199-5

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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Palmquist et al., Nuclear vacuoles in nuclear cataract.	
		Acta. Ophthalmol. (Copenh.), 64(1): 63-6, 1984	
		Reddan et al., Regional differences in the distribution of catalyses in the epithelium of the ocular lens.	
		Cell. Mol. Biol., 42:209-19, 1975	
		Reddan et al., Induction of mitosis in the cultured rabbit lens initiated by the addition of insulin to medium KEI-4.	
		Exp. Eye Res., 20:45-61, 1975	
		Richer and Rose, Water soluble antioxidants in mammalian aqueous humor: interaction with UV B and hydrogen peroxide.	
		Vision Res., 38:2881-888, 1998	
↓		Riley, M.V., The chemistry of the aqueous humor. In Biochemistry of the Eye,	
HK		Anderson, R. E. ed., San Francisco: American Academy of Ophthalmology, 1983, pp. 79-95 (N/A)	

Examiner Signature	/Hemant Khanna/	Date Considered	07/21/2006
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary) --

Complete if Known

Application Number	10/650,357
Filing Date	08/27/03
First Named Inventor	James Dillon
Art Unit	3738
Examiner Name	to be assigned
Attorney Docket Number	5199-5

Sheet	10	of	14
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NON PATENT LITERATURE DOCUMENTS

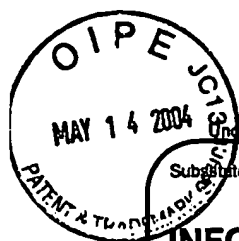
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Rischbieter and Schumpe, Gas solubilities in aqueous solutions of organic substances.	
		J. Chem. Eng. Data, 41: 809-12, 1996	
		Rose et al., Properties of electrochemically active components in mammalian vitreous humor.	
		Exp. Eye Res., 64:807-12, 1997	
		Sakaue et al., Comparative study of vitreous oxygen tension in human and rabbit eyes.	
		Invest. Ophthalmol. Vis. Sci., 30(9): 1933-37, 1989	
		Sakaue et al., Measurement of vitreous oxygen tension in human eyes.	
		Jpn. J. Ophthalmol., 33: 199-203, 1989	
↓		Sawa et al., Assessment of nuclear sclerosis after nonvitrectomizing vitreous surgery.	
HK		Am. J. Ophthalmol., 132(3): 356-62, 2001	

Examiner Signature	/Hemant Khanna/	Date Considered	07/21/2006
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known

Application Number	10/650,357
Filing Date	08/27/03
First Named Inventor	James Dillon
Art Unit	3738
Examiner Name	to be assigned
Attorney Docket Number	5199-5

Sheet	11	of	14
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		Schocket et al., Induction of cataracts in mice by exposure to oxygen.	
		Isr. J. Med. Sci., 8(8):1596-601, 1972	
		Schumpe, A., The estimation of gas solubilities in salt solutions.	
		Chemical Engineering Sci., 48: 153-58, 1993 (N/A)	
		Shui and Beebe, Oxygen levels in human eyes before and after vitrectomy.	
		Invest. Ophthalmol. Vis. Sci., 44(5): 2346, 2003	
		Smiddy et al., Vitrectomy for macular traction caused by incomplete vitreous separation.	
		Arch. Ophthalmol., 106(5): 624-28, 1988	
		Spector et al., Repair of H2O2 induced DNA damage in bovine lens epithelia cell cultures. Exp. Eye Res., 60:483-92, 1995a	
HK			

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
		Application Number	10/650,357		
		Filing Date	08/27/03		
		First Named Inventor	James Dillon		
		Art Unit	3738		
		Examiner Name	to be assigned		
Sheet	12	of	14	Attorney Docket Number	5199-5

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		Spector et al., Development and characterization of an H2O2-resistant immortal lens epithelia cell line.	
		Invest. Ophthalmol. Vis. Sci., 41:832-43, 2000	
		Spector et al., A brief photochemically induced oxidative insult causes irreversible lens damage and cataract II. Mechanism of Action.	
		Exp. Eye Res., 60:483-92, 1995a	
		Spector et al., A brief photochemically induced oxidative insult causes irreversible lens damage and cataract I. transparency and epithelial cell	
		layer. Exp. Eye Res., 60:471-81, 1995	
		Spector et al., The prevention of cataract caused by oxidative stress in cultured rat lenses. I. H2O2 and photochemically induced cataract.	
		Curr. Eye Res., 12:13-179, 1998	
↓		Spector and Wang, The aqueous humor is capable of generating and degrading H2O2.	
HK		Inves. Ophthalmol. Vis. Sci., 39:1188-97, 1998	

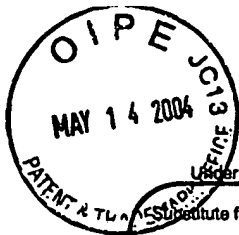
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known

Application Number	10/650,357
Filing Date	08/27/03
First Named Inventor	James Dillon
Art Unit	3738
Examiner Name	to be assigned
Attorney Docket Number	5199-5

Sheet	13	of	14
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		Stefansson et al., Vitrectomy prevents retinal hypoxia in branch retinal vein occlusion.	
		Invest. Ophthalmol. Vis. Sci., 31(2):284-89, 1990	
		Subczynski et al., Effect of alkyl chain unsaturation and cholesterol intercalation on oxygen transport in membranes: A pulse ESR spin labeling study.	
		Biochemistry, 30:8578-90, 1991a	
		Subczynski et al., Oxygen permeability of phosphatidylcholine-cholesterol membranes.	
		Proc. Natl. Acad. Sci., USA. 86:4474-78, 1989	
		Tessier et al., Decrease in vitamin C concentration in human lenses during cataract progression.	
		Internat. J. Vit. Nutr. Res., 68:309-15, 1998	
		Truscott, R.J., Age-related nuclear cataract: a lens transport problem.	
HK		Ophthalmic. Res., 32(5): 185-94, 2000	

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		Art Unit	3738
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Sheet 14	of 14	Attorney Docket Number	5199-5

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↓		Varma et al., Oxidative stress on lens and cataract formation: Role of light and oxygen.	
		Curr. Eye Res., 3(1):35-57, 1984	
		Yorio et al., Aerobic and anaerobic metabolism of the crystalline lens of a poikilotherm; the toad Bufo marinus.	
		Comparative Biochemistry and Physiology, 62: 123-26, 1979	
		Young, R.W., Age-related deterioration of the lens. In age-related cataract, Oxford: Oxford University Press, 1991, pp. 33-56	
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